Transportation EDI Implementation Standards ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice



# **Advantage Delivered**

# **KBX Technology Solutions, LLC Electronic Data Interchange**

ASC X12 4010 EDI Implementation Guidelines 410 Rail Carrier Freight Details and Invoice

# **KBX Technology Solutions, LLC Electronic Data Interchange** Transportation EDI Implementation Standards

ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

# **Change Summary**

Date	Action	Segment	Segment Description	Element	Description of Change
10/25/2021	Creation	All	All	All	This document has been created to supersede the previous document for KBX Logistics, LLC and the GPTSPP/GPTSPT/KBXL ISA / GS IDs-(Bruckert)
1/24/2022	Update	GS	Group	All	Added GS section which was missing in prior versions of this document.

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# **Electronic Commerce Help Desk – Contact List**

<u>Name</u>	Support Area	Submit Request	<u>E-mail</u>
Orderful Help Center	EDI Connectivity / Orderful Portal / Outage questions	https://orderful.zend esk.com/hc/en- us/requests/new	Support@Orderful.com
KBX Technology Solutions	General Onboarding, Completeness and Compliance questions		VisibilityOperations@kbxlogistics.com  KBXTECHB2Bsupport@kbx.global

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# 410 Rail Carrier Freight Details and Invoice

# Functional Group ID=IR

#### **Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Rail Carrier Freight Details and Invoice Transaction Set (410) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide detailed information of charges associated with a rail movement. The information is provided by a rail carrier and is sent to the freight payer.

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Loop <u>Repeat</u>	Notes and Comments
M		ISA	Interchange Control Header	M	1		
M		GS	Functional Group Header	M	1		
M	010	ST	Transaction Set Header	M	1		
	020	ВЗВ	Beginning Segment for Carrier's Invoice	M	1		
	040	N9	Reference Identification	O	30		
			LOOP ID – N7			500	
M	050	N7	Equipment Details	M	1		
	080	M7	Seal Numbers	O	5		
M	130	N8	Waybill Reference	M	499		
M	140	F9	Origin Station	M	1		
M	150	D9	Destination Station	M	1		
			LOOP ID – N1			10	
	160	N1	Name	О	1		
	165	N2	Additional Name Information	O	2		
	170	N3	Address Information	O	2		
	180	N4	Geographic Location	O	1		
	185	PER	Administrative Communications Contact	O	2		
			LOOP ID – S1			12	
	370	S1	Stop-off Name	О	1		
	400	R2	Route Information	O	13		·
			LOOP ID – LX			25	
M	430	LX	Assigned Number	M	1		
M	440	L5	Description, Marks and Numbers	M	15		
			LOOP ID – L0			25	
M	460	L0	Line Item – Quantity and Weight	M	1		
M	470	L1	Rate and Charges	M	10		
	480	PI	Price Authority Identification	O	30		
			LOOP ID – T1			64	
M	540	L3	Total Weight and Charges	M	1		
M	570	SE	Transaction Set Trailer	M	1		
		GE	Functional Group Trailer	M	1		
		IEA	Interchange Control Trailer	M	1		

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# Segment: ISA Interchange Control Header

**Position:** 001

Loop:

Level:

Usage: Mandatory

Max Use:

Purpose: To start and identify an interchange of zero or more functional groups and interchange-

related control segments

Syntax Notes: Semantic Notes: Comments: Notes:

			Data Element Summary	
	Ref.	Data		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attributes</u>
M	ISA01	<b>I01</b>	Authorization Information Qualifier	M ID 2/2
			Code to identify the type of information in the Authorization	Information
			00 No Authorization Information Present (	No Meaningful
			Information in IO2)	
M	ISA02	<b>I02</b>	Authorization Information	M AN 10/10
			Information used for additional identification or authorization	n of the
			interchange sender or the data in the interchange; the type of	information is set
			by the Authorization Information Qualifier (I01)	
			Spaces	
M	ISA03	<b>I03</b>	Security Information Qualifier	M ID 2/2
			Code to identify the type of information in the Security Infor	mation
			No Security Information Present (No M	
			Information in I04)	C
M	ISA04	<b>I04</b>	Security Information	M AN 10/10
			This is used for identifying the security information about the	e interchange
			sender or the data in the interchange; the type of information	
			Security Information Qualifier (I03)	•
			Spaces	
M	ISA05	<b>I05</b>	Interchange ID Qualifier	M ID 2/2
			Qualifier to designate the system/method of code structure us	sed to designate
			the sender or receiver ID element being qualified	C
			Carrier Interchange ID Qualifier	
M	ISA06	<b>I06</b>	Interchange Sender ID	M AN 15/15
			Identification code published by the sender for other parties t	to use as the
			receiver ID to route data to them; the sender always codes the	
			sender ID element	
			Carrier Interchange ID	
M	ISA07	<b>I05</b>	Interchange ID Qualifier	M ID 2/2
			Qualifier to designate the system/method of code structure us	sed to designate
			the sender or receiver ID element being qualified	-
			ZZ Mutually Defined	
M	ISA08	<b>I07</b>	Interchange Receiver ID	M AN 15/15
			Identification code published by the receiver of the data; Wh	en sending, it is
			used by the sender as their sending ID, thus other parties sender	
			use this as a receiving ID to route data to them	<del>-</del>
			KBXTECH for test and production	
			*	

# **KBX Technology Solutions, LLC Electronic Data Interchange** Transportation EDI Implementation Standards ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

M	ISA09	108	Interchange Date Date of the interchange	M	DT 6/6
			YYMMDD		
M	ISA10	109	Interchange Time	M	TM 4/4
			Time of the interchange		
			ННММ		
M	ISA11	I10	Interchange Control Standards Identifier	M	ID 1/1
			Code to identify the agency responsible for the control stand message that is enclosed by the interchange header and trailed	er	•
			Refer to 004010 Data Element Dictionary for acceptable co		
M	ISA12	I11	Interchange Control Version Number		ID 5/5
			This version number covers the interchange control segmen		S 1.11
			00401 Draft Standards for Trial Use Approve		
			by ASC X12 Procedures Review Board October 1997	1 thro	ıgn
M	ISA13	I12	Interchange Control Number	M	N0 9/9
171	15/113	112	A control number assigned by the interchange sender	171	110 717
M	ISA14	I13	Acknowledgment Requested	M	ID 1/1
			Code sent by the sender to request an interchange acknowle	dgmer	
			Note: This is an informational only field. The value sent in t	his ele	ement alone
			does not drive the generation of an acknowledgment 997 for		
			Within Orderful's platform 997s can be turned on or off wit	hin the	e Trading
	-a		Partner Relationships setting page.		
M	ISA15	I14	Usage Indicator		ID 1/1
			Code to indicate whether data enclosed by this interchange en production or information	nveio	pe is test,
			P Production Data shows "Live" Environ	ıment	in Orderful
			T Test Data shows "Test" Environment i	n Ord	erful
			NOTE: An indicator of T will not be p	assed:	into our
M	ISA16	T1.5	production "Live" environment.	M	A NT 1/1
M	15A10	I15	Component Element Separator Type is not applicable; the component element separator is a		AN 1/1
			a data element; this field provides the delimiter used to sepa		
			data elements within a composite data structure; this value r		
			than the data element separator and the segment terminator	1350	
			>		

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Segment: GS Functional Group Header

Position: 002

Loop: Level:

Usage: Mandatory

Max Use: 1

**Purpose:** To indicate the beginning of a functional group and to provide control information

Syntax Notes:

**Semantic Notes:** 1 GS04 is the group date.

**2** GS05 is the group time.

2 The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

**Comments:** 1 A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

#### **Data Element Summary**

	Ref.	Data	· · · · · · · · · · · · · · · · · · ·		
	Des.	<b>Element</b>	<u>Name</u>	Att	<u>ributes</u>
$\mathbf{M}$	GS01	479	Functional Identifier Code	M	ID 2/2
			Code identifying a group of application related transaction se	ts	
			IM Motor Carrier Freight Details and Invoice	ce	
			(210, 980)		
$\mathbf{M}$	<b>GS02</b>	142	Application Sender's Code		AN 2/15
			Code identifying party sending transmission; codes agreed to	by tı	rading
			partners		
	0000	404	Carrier Application ID		137648
M	GS03	124	Application Receiver's Code		AN 2/15
			Code identifying party receiving transmission. Codes agreed	to by	trading
			partners  VDVTECH for test and production		
M	GS04	373	KBXTECH for test and production  Date	М	DT 8/8
171	GSUT	373	Date expressed as CCYYMMDD	171	D1 6/6
			CCYYMMDD		
M	<b>GS05</b>	337	Time	M	TM 4/8
			Time expressed in 24-hour clock time as follows: HHMM, or		
			HHMMSSD, or HHMMSSDD, where $H = hours (00-23)$ , M		
			59), $S = integer seconds (00-59) and DD = decimal seconds;$		
			are expressed as follows: $D = tenths (0-9)$ and $DD = hundred$	ths ((	00-99)
			HHMM		
$\mathbf{M}$	<b>GS06</b>	28	<b>Group Control Number</b>	M	N0 1/9
			Assigned number originated and maintained by the sender		
M	<b>GS07</b>	455	Responsible Agency Code		ID 1/2
			Code used in conjunction with Data Element 480 to identify t	he is	suer of the
			standard		
M	<b>GS08</b>	400	X Accredited Standards Committee X12	М	AN 1/12
M	GSUO	480	Version / Release / Industry Identifier Code Code indicating the version, release, sub release, and industry		
			EDI standard being used, including the GS and GE segments;		
			in GS segment is X, then in DE 480 positions 1-3 are the vers		
			positions 4-6 are the release and sub release, level of the versi		
			7-12 are the industry or trade association identifiers (optional		
			user); if code in DE455 in GS segment is T, then other formation		
			Code Name		
			4010 Draft Standards Approved for Publication	on by	ASC X12
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Procedures Review Board through October 1997

#### Semantics:

- 1. GS04 is the group date.
- 2. GS05 is the group time.
- 3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

#### **Comments:**

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

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Segment: ST Transaction Set Header

**Position:** 010

Loop:

Level: Usage:

Mandatory

Max Use:

**Purpose:** To indicate the

Syntax Notes:

Semantic Notes:

To indicate the start of a transaction set and to assign a control number

The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810

selects the Invoice Transaction Set).

**Comments:** 

M	Ref. <u>Des.</u> ST01	Data Element 143	Name Transaction Set Identifier Code	Attı M	ributes ID 3/3	
			Code uniquely identifying a Transaction Set			
			Refer to 004010 Data Element Dictionary for acceptable code	e valı	ies.	
M	ST02	329	Transaction Set Control Number	M	AN 4/9	
			Identifying control number that must be unique within the transactifunctional group assigned by the originator for a transaction set			

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Segment:  ${\bf B3B}$  Beginning Segment for Carrier's Invoice

**Position:** 020

Loop: Level:

Usage: Mandatory

Max Use: 1

Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

**Syntax Notes:** 

**Semantic Notes:** 1 B3B03 is the billing date.

2 B3B05 is the payment due date.

**3** B3B11 defines the currency used in the transaction.

**Comments:** 1 The B3B09 default value is pounds.

	Ref.	Data				
	Des.	Element	Name		<u>ributes</u>	
M	B3B01	<b>76</b>	Invoice Number	M	AN 1/22	
			Identifying number assigned by issuer			
M	B3B02	146	Shipment Method of Payment	M	ID 2/2	
			Code identifying payment terms for transportation charges			
			PP = Prepaid			
M	B3B03	373	Date	$\mathbf{M}$	<b>DT 8/8</b>	
			Invoice date expressed as CCYYMMDD			
M	B3B04	193	Net Amount Due	$\mathbf{M}$	N2 1/12	
			Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified			
	B3B05	373	Date	O	<b>DT 8/8</b>	
			Due date expressed as CCYYMMDD			
M	B3B06	140	Standard Carrier Alpha Code	$\mathbf{M}$	ID 2/4	
			Standard Carrier Alpha Code			
M	<b>B3B07</b>	91	Transportation Method/Type Code	$\mathbf{M}$	ID 1/2	
			Code specifying the method or type of transportation for the	shipn	nent	
			Refer to 004010 Data Element Dictionary for acceptable code	e valu	ies.	
M	B3B08	145	Shipment Identification Number	O	AN 1/30	
			This field will contain the KBX shipment id			
	B3B11	100	Currency Code	O	ID 3/3	
			Code (Standard ISO) for country in whose currency the charge	ges ar	e specified	

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Segment: N9 Reference Identification

**Position:** 040

Loop: Level:

Usage: Optional Max Use: 30

**Purpose:** To transmit identifying information as specified by the Reference Identification Qualifier

**Syntax Notes:** 1 At least one of N902 or N903 is required.

2 If N906 is present, then N905 is required.

3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 N906 reflects the time zone which the time reflects.

N907 contains data relating to the value cited in N902.

**Comments:** 

M	Ref. <u>Des.</u> N901	Data Element 128	Name Reference Identification Qualifier	Att M	cributes ID 2/3
M	N902	127	BM = Bill of lading number PR = Price Quote Number Reference Identification	X	AN 1/30
	N903	369	For qualifier BM it will be the KBX bill of lading number For qualifier PR it will be the price quote number.  Free-form Description	X	AN 1/45
	N904	373	Free-form descriptive text  Date  Bill of lading date expressed as CCYYMMDD	o	DT 8/8

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Segment: N7 Equipment Details

**Position:** 050

**Loop:** N7 Mandatory

Level:

Usage: Mandatory

Max Use: 1

**Purpose:** To identify the equipment

**Syntax Notes:** 1 If either N703 or N704 is present, then the other is required.

2 If either N705 or N716 is present, then the other is required.

3 If either N708 or N709 is present, then the other is required.

**Semantic Notes:** 1 N712 is the owner of the equipment.

2 N723 is the operator or carrier of the rights of the equipment.

**Comments:** 1 N701 is mandatory for rail transactions.

2 N720 and N721 are expressed in inches.

	Ref.	Data	, and the second			
	Des.	Element	Name	Attr	<u>ributes</u>	
	N701	206	Equipment Initial	O	AN 1/4	
			Prefix or alphabetic part of an equipment unit's identifying n	ıumbe	r	
M	N702	207	<b>Equipment Number</b>	$\mathbf{M}$	AN 1/10	
			Sequencing or serial part of an equipment unit's identifying numeric form for equipment number is preferred)	numbe	er (pure	
	N711	40	<b>Equipment Description Code</b>	o	ID 2/2	
			Code identifying type of equipment used for shipment			
	N712	140	Standard Carrier Alpha Code	O	<b>ID 2/4</b>	
			Standard Carrier Alpha Code			
	N715	567	<b>Equipment Length</b>	O	N0 4/5	
			Length (in feet and inches) of equipment ordered or used to transport shipm (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)			

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M7 Seal Numbers **Segment:** 

**Position:** 

Loop: N7 Mandatory

Level:

Usage: Optional

Max Use: **Purpose:** 

To record seal numbers used and the organization that applied the seals

**Syntax Notes:** 

**Semantic Notes:** 

**Comments:** M705 indicates the name of the organization which applied the seal(s).

**Data Element Summary** 

Ref. Data **Element** Name **Attributes** Des. M M701 225 **Seal Number** M AN 2/15

Unique number on seal used to close a shipment

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Segment: N8 Waybill Reference

**Position:** 130

Loop: Level:

Usage: Mandatory
Max Use: 499

**Purpose:** To identify the waybill and to specify the equipment used and the destination details

**Syntax Notes:** 1 If any of N803 N804 or N805 is present, then all are required.

If either N806 or N807 is present, then the other is required.
If either N808 or N809 is present, then the other is required.

4 If either N810 or N811 is present, then the other is required.

**Semantic Notes:** 1 N802 is the waybill date.

N808 is the destination station of movement.

3 N810 will contain destination railroad initial Standard Carrier Alpha Code (SCAC).

4 N811 will contain railroad destination Freight Station Accounting Code (FSAC).

**Comments:** 1 Waybill type should be transmitted only when the transaction set involves a multiple

Car/TOFC/COFC shipment or a conveying flat car. Waybill type should not be sent

on a single Car/TOFC/COFC.

2 N807 is the waybill date.

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	Att	<u>ributes</u>
M	N801	186	Waybill Number	M	N0 1/6
			Carrier accounting number of the waybill for the inbound me	oveme	ent
M	N802	373	Date	M	<b>DT 8/8</b>
			Date expressed as CCYYMMDD		

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Segment: F9 Origin Station

**Position:** 140

Loop: Level:

Usage: Mandatory

Max Use: 1

**Purpose:** To identify the rail origin of the shipment

**Syntax Notes:** 

**Semantic Notes:** 1 F902 is the origin station for movement.

2 F904 is the country code for the city named in the F902.

3 F905 is the freight station accounting code of the origin junction settlement carrier.

4 F908 is the Standard Point Location Code (SPLC) for the city named in the F902.

5 F909 is the postal code for the city named in the F902.

**6** F910 is the Standard Point Location Code (SPLC) for the city named in the F906.

**7** F911 is the postal code for the city named in the F906.

**8** F912 is the country code for the city named in the F906.

**Comments:** 1 F905 is the freight station accounting code of the city named in F906.

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	Attı	<u>ributes</u>
M	F902	19	City Name	M	AN 2/30
			Free-form text for city name		
M	F903	156	State or Province Code	M	ID 2/2
			Code (Standard State/Province) as defined by appropriate go	overnn	nent agency

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Segment: **D9** Destination Station

**Position:** 150

Loop: Level:

Usage: Mandatory

Max Use: 1

**Purpose:** To identify the rail destination of the shipment

Syntax Notes:

**Semantic Notes:** 1 D902 is the destination station of movement.

2 D904 is the country code for the city named in the D902.

3 D905 is the freight station accounting code of the destination junction settlement

4 D908 is the Standard Point Location Code (SPLC) for the city named in the D902.

5 D909 is the postal code for the city names in the D902.

6 D910 is the Standard Point Location Code (SPLC) for the city named in the D906.

7 D911 is the postal code for the city named in the D906.

**8** D912 is the country code for the city named in the D906.

**Comments:** 1 D905 is the freight station accounting code of the city name in D906.

	Ref.	Data			
	Des.	<b>Element</b>	Name	Attı	<u>ributes</u>
M	<b>D902</b>	19	City Name	M	AN 2/30
			Free-form text for city name		
$\mathbf{M}$	D903	156	State or Province Code	M	ID 2/2
			Code (Standard State/Province) as defined by appropriate g	overnn	nent agency

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Segment: N1 Name

**Position:** 160

Loop: N1 Optional

Level:

Usage: Optional Max Use: 1

**Purpose:** To identify a party by type of organization, name, and code

**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:** 

**Comments:** 

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

N105 and N106 further define the type of entity in N101.

M	Ref. <u>Des.</u> N101	Data <u>Element</u> 98	Name Entity Identifier Code	Attı M	ributes ID 2/3
			CN = Consignee		
			PF = Party to receive freight bill		
			SH = Shipper		
M	N102	93	Name	X	AN 1/60
			Free-form name		
	N103	66	Identification Code Qualifier	X	ID 1/2
			Code designating the system/method of code structure used Code (67)	for Ide	entification
	N104	67	Identification Code	X	AN 2/80
			Code identifying a party or other code		

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Segment: N2 Additional Name Information

**Position:** 165

Loop: N1 Optional

Level:

Usage: Optional Max Use: 2

**Purpose:** To specify additional names or those longer than 35 characters in length

Syntax Notes: Semantic Notes: Comments:

M	Ref. <u>Des.</u> N201	Data Element 93	Name Name	Attributes M AN 1/60
			Free-form name	
	N202	93	Name	O AN 1/60
			Free-form name	

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Segment: N3 Address Information

**Position:** 170

Loop: N1 Optional

Level:

Usage: Optional Max Use: 2

**Purpose:** To specify the location of the named party

Syntax Notes: Semantic Notes: Comments:

M	Ref. <u>Des.</u> N301	Data Element 166	Name Address Information		ibutes AN 1/55
			Address information		
	N302	166	<b>Address Information</b>	0	AN 1/55
			Address information		

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Segment: N4 Geographic Location

**Position:** 180

Loop: N1 Optional

Level:

Usage: Optional Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

**Semantic Notes:** 

**Comments:** 

1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	Attı	<u>ributes</u>
N401	19	City Name	O	AN 2/30
		Free-form text for city name		
N402	156	State or Province Code	O	ID 2/2
		Code (Standard State/Province) as defined by appropriate go	vernn	nent agency
N403	116	Postal Code	O	ID 3/15
		Code defining international postal zone code excluding punc (zip code for United States)	tuatio	on and blanks
N404	26	Country Code	O	ID 2/3
		Code identifying the country		
N405	309	Location Qualifier	$\mathbf{X}$	ID 1/2
		Code identifying type of location		
		Refer to 004010 Data Element Dictionary for acceptable cod	e valu	ies.
N406	310	Location Identifier	O	AN 1/30
		Code which identifies a specific location		

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Segment: PER Administrative Communications Contact

**Position:** 185

Loop: N1 Optional

Level:

Usage: Optional Max Use: 2

**Purpose:** To identify a person or office to whom administrative communications should be directed

**Syntax Notes:** 1 If either PER03 or PER04 is present, then the other is required.

2 If either PER05 or PER06 is present, then the other is required.

3 If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:** Comments:

**Data Element Summary** 

	Ref.	Data	·		
	Des.	<b>Element</b>	<u>Name</u>	Attı	<u>ributes</u>
$\mathbf{M}$	PER01	366	Contact Function Code	M	ID 2/2
			IC = Information contact		
	PER02	93	Name	O	AN 1/60
			Free-form name		
	PER03	365	Communication Number Qualifier	X	ID 2/2
			TE = Telephone		
			FX = Fax		
	PER04	364	Communication Number	X	AN 1/80
			Complete communications number in cluding country or once	anda	rr.h.an

Complete communications number including country or area code when

applicable

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 ${\bf Segment:} \quad S1 \ {\bf Stop\text{-}off\ Name}$ 

**Position:** 370

Loop: S1 Optional

Level:

Usage: Optional Max Use: 1

**Purpose:** To identify a stop-off party

Syntax Notes: 1 If either S103 or S104 is present, then the other is required.
 Semantic Notes: 1 S105 will contain the railroad initial responsible for this stop.

**Comments:** 

	Ref.	Data	Data Element Summary		
	Des.	<b>Element</b>	Name	Att	<u>ributes</u>
M	S101	165	Stop Sequence Number	$\mathbf{M}$	N0 1/3
			Identifying number for the specific stop and the sequence in to be performed	which	n the stop is
$\mathbf{M}$	S102	459	Name (30 Character Format)	$\mathbf{M}$	AN 2/30
			Free-form organization name or official title as it should appaddress	pear fo	or mailing
	S103	66	Identification Code Qualifier	X	ID 1/2
			Code designating the system/method of code structure used Code (67)		
			Refer to 004010 Data Element Dictionary for acceptable co	de valı	ies.
	S104	67	Identification Code	X	AN 2/80
			Code identifying a party or other code		
	S105	140	Standard Carrier Alpha Code	O	ID 2/4
			Standard Carrier Alpha Code		
M	S106	190	Accomplish Code	$\mathbf{M}$	ID 1/1
			A = accomplished		
			P = pending		

Transportation EDI Implementation Standards

ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

Segment: R2 Route Information

**Position:** 400

Loop: Level:

Usage: Optional Max Use: 13

Purpose: To specify carrier and routing sequences and details
Syntax Notes: 1 If R208 is present, then R207 is required.

**Semantic Notes:** 1 R203 is the station or city name at which carriers interchange shipments.

**2** R210 is the billing date.

**Comments:** 

	Ref.	Data	v		
	Des.	<b>Element</b>	<u>Name</u>	<u>Attı</u>	<u>ibutes</u>
M	R201	140	Standard Carrier Alpha Code	$\mathbf{M}$	ID 2/4
			Standard Carrier Alpha Code		
M	R202	133	<b>Routing Sequence Code</b>	M	ID 1/2
			S = Origin carrier, Shipper's routing (rail)		
	R203	19	City Name	O	AN 2/30
			Free-form text for city name		
	R206	91	Transportation Method/Type Code	O	ID 1/2
			Code specifying the method or type of transportation for the shipment		

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ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

Segment: LX Assigned Number

**Position:** 430

**Loop:** LX Mandatory

Level:

Usage: Mandatory

Max Use:

**Purpose:** To reference a line number in a transaction set

Syntax Notes: Semantic Notes: Comments:

**Data Element Summary** 

 Ref. Data

 Des.
 Element
 Name
 Attributes

 M
 LX01
 554
 Assigned Number
 M N0 1/6

Number assigned for differentiation within a transaction set

Transportation EDI Implementation Standards

ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

Segment: L5 Description, Marks and Numbers

**Position:** 440

**Loop:** LX Mandatory

Level:

Usage: Mandatory

Max Use: 15

**Purpose:** To specify the line item in terms of description, quantity, packaging, and marks and

numbers

**Syntax Notes:** 1 If either L503 or L504 is present, then the other is required.

2 If L507 is present, then L506 is required.

3 If either L508 or L509 is present, then the other is required.

**Semantic Notes:** 

**Comments:** 1 L502 may be used to send quantity information as part of the product description.

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	Attı	<u>ributes</u>
L501	213	Lading Line Item Number	O	N0 1/3
		Sequential line number for a lading item		
L502	<b>79</b>	<b>Lading Description</b>	O	AN 1/50
		Description of an item as required for rating and billing purpo	oses	

Transportation EDI Implementation Standards

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Segment: L0 Line Item - Quantity and Weight

**Position:** 460

**Loop:** L0 Mandatory

Level:

Usage: Mandatory

Max Use:

**Purpose:** To specify quantity, weight, volume, and type of service for a line item including

applicable "quantity/rate-as" data

**Syntax Notes:** 1 If either L002 or L003 is present, then the other is required.

If either L004 or L005 is present, then the other is required.

3 If either L006 or L007 is present, then the other is required.

4 If either L008 or L009 is present, then the other is required.

5 If L011 is present, then L004 is required.

If either L013 or L015 is present, then the other is required.

**Semantic Notes:** 1 L008 is the number of handling units of the line item tendered to the carrier.

2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.

3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.

**Comments:** 1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

Data			
<b>Element</b>	<u>Name</u>	Attı	<u>ributes</u>
213	Lading Line Item Number	O	N0 1/3
	Sequential line number for a lading item		
220	Billed/Rated-as Quantity	X	R 1/11
	Basis for rating (miles, value, volume, etc.); Note: Weight ma either data element 220 or 81	ay be	defined by
221	Billed/Rated-as Qualifier	X	ID 2/2
	Code identifying the type of quantity or value on which the rais based	ate or	item pricing
81	Weight	X	R 1/10
	Numeric value of weight		
187	Weight Qualifier	$\mathbf{X}$	ID 1/2
	Code defining the type of weight		
183	Volume	$\mathbf{X}$	R 1/8
	Value of volumetric measure		
184	Volume Unit Qualifier	X	ID 1/1
	Code identifying the volume unit		
80	Lading Quantity	X	N0 1/7
	Number of units (pieces) of the lading commodity		
211	Packaging Form Code	X	ID 3/3
	Code for packaging form of the lading quantity		
	Element 213 220 221 81 187 183 184 80	Element 213 Lading Line Item Number Sequential line number for a lading item  220 Billed/Rated-as Quantity Basis for rating (miles, value, volume, etc.); Note: Weight may either data element 220 or 81  221 Billed/Rated-as Qualifier Code identifying the type of quantity or value on which the ray is based  81 Weight Numeric value of weight  187 Weight Qualifier Code defining the type of weight  183 Volume Value of volumetric measure  184 Volume Unit Qualifier Code identifying the volume unit  80 Lading Quantity Number of units (pieces) of the lading commodity  211 Packaging Form Code	Element 213Name Lading Line Item Number Sequential line number for a lading itemAttr220Billed/Rated-as Quantity 

Transportation EDI Implementation Standards

ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

Segment: L1 Rate and Charges

**Position:** 470

**Loop:** L0 Mandatory

Level:

Usage: Mandatory

Max Use: 10

Purpose: To specify rate and charges detail relative to a line item including freight charges,

advances, special charges, and entitlements

**Syntax Notes:** 1 If either L102 or L103 is present, then the other is required.

2 At least one of L104 L105 or L106 is required.

3 If either L114 or L115 is present, then the other is required.

4 If either L117 or L118 is present, then the other is required.

**Semantic Notes:** 1 L119 is the percent used to determine the charge in L104.

2 L120, if used, indicates the currency for all monetary amounts in this L1 segment.

3 L121 is the origin rated as charge amount.

#### **Comments:**

Ref.	Data	v		
Des.	<b>Element</b>	Name	Attı	<u>ributes</u>
L101	213	Lading Line Item Number	O	N0 1/3
		Sequential line number for a lading item		
L102	60	Freight Rate	X	R 1/9
		Rate that applies to the specific commodity		
L103	122	Rate/Value Qualifier	$\mathbf{X}$	ID 2/2
		Code qualifying how to extend charges or interpret value		
L104	58	Charge	X	N2 1/12
L105	191	For a line item: freight or special charge; for the total invoice expressed in the standard monetary denomination for the coadwances	ırren <b>X</b>	cy specified N2 1/9
L106	117	Incidental charges occurring during transportation which are considered to be freight charges (examples - stop charges, div reconsignment, icing) expressed in the standard monetary der currency specified  Prepaid Amount	ersic	on and
		Money paid at point of origin (usually by shipper) expressed monetary denomination for the currency specified Refer to 004010 Data Element Dictionary for acceptable code		
L108	150	Special Charge or Allowance Code	O	ID 3/3
		Code identifying type of special charge or allowance		
		Refer to 004010 Data Element Dictionary for acceptable code	valu	ies.
L109	121	Rate Class Code	O	ID 1/3
		Code identifying specifically designated class of goods; Note air shipments, see IATA Resolution 600k	: For	international
L111	16	Charge Method of Payment	O	ID 1/1
		Code defining method of payment		
L112	276	Special Charge Description	0	AN 2/25
		Identification of special charge; this data element is used whe applicable code cannot be found in data element 150	neve	r an

Transportation EDI Implementation Standards

ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

Segment: PI Price Authority Identification

Position: 480

Loop: L0 Optional

Level:

Usage: Optional Max Use: 30

**Purpose:** To communicate basis of pricing, such as contract number, quote number, or tariff

ıumbeı

**Syntax Notes:** 1 If PI14 is present, then PI12 is required.

2 If PI15 is present, then PI13 is required.

**Semantic Notes:** 1 PI07 is the price authority suffix for the contract.

PI08 is the price authority item number.
PI09 is the price authority supplement.
PI10 is the price authority section number.
PI11 is the price authority suffix for tariff.

6 PI12 is the effective date.

7 PI13 is the expiration date.

#### **Comments:**

			2 400 2101110110 8 411111141 3			
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	Attı	<u>ributes</u>	
O	PI01	128	Reference Identification Qualifier	$\mathbf{M}$	ID 2/3	
			PR = Price quote number			
0	PI02	127	Reference Identification	M	AN 1/30	
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	on Set o	or as	
	PI03	436	Primary Publication Authority Code	O	ID 2/2	
			Code indicating type of external reference			
			Refer to 004010 Data Element Dictionary for acceptable co	de valı	ies.	
	PI04	930	Regulatory Agency Code	O	ID 3/5	
			Code relating to the regulatory agency governing the price r	the price reference		
	PI05	168	Tariff Agency Code	O	<b>ID 1/4</b>	
			Code defining the tariff bureau or tariff publishing agent the applied to this shipment	at gove	erns the rates	

Transportation EDI Implementation Standards

ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

Segment: L3 Total Weight and Charges

**Position:** 540

Loop: Level:

Usage: Mandatory

Max Use: 1

Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and

prepaid amounts applicable to one or more line items

**Syntax Notes:** 1 If either L301 or L302 is present, then the other is required.

If either L303 or L304 is present, then the other is required.

3 If either L309 or L310 is present, then the other is required.

4 If L312 is present, then L301 is required.

5 If either L314 or L315 is present, then the other is required.

**Semantic Notes:** 1 L305 is the total charges.

Comments:

Ref.	Data			
Des.	<b>Element</b>	<u>Name</u>	Attı	<u>ributes</u>
L301	81	Weight	$\mathbf{X}$	R 1/10
		Numeric value of weight		
L302	187	Weight Qualifier	X	ID 1/2
		Code defining the type of weight		
L311	80	Lading Quantity	O	N0 1/7
		Number of units (pieces) of the lading commodity		

Transportation EDI Implementation Standards

ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

Segment: **SE** Transaction Set Trailer

**Position:** 570

Loop: Level:

Usage: Mandatory

Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:** 

**Semantic Notes:** 

**Comments:** 1 SE is the last segment of each transaction set.

	Ref.	Data					
	Des.	<b>Element</b>	<u>Name</u>	Attr	<u>ributes</u>		
M	SE01	96	Number of Included Segments	$\mathbf{M}$	N0 1/10		
			Total number of segments included in a transaction set include segments	ling S	ST and SE		
M	SE02	329	Transaction Set Control Number	M	AN 4/9		
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Transportation EDI Implementation Standards ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

# **GE** Functional Group Trailer

To indicate the end of a functional group and to provide control information

#### **Element Summary:**

Ref _	<u>Id</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	$\mathbf{M}$	N0	1/6	Must
		<b>Description:</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				use
GE02	28	Group Control Number	M	N0	1/9	Must
		<b>Description:</b> Assigned number originated and maintained by the sender				use

#### Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

#### **Comments:**

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Transportation EDI Implementation Standards ASC X12 4010 410: Transportation Rail Carrier Freight Details & Invoice

# **IEA** Interchange Control Trailer

To define the end of an interchange of zero or more functional groups and interchange-related control segments

#### **Element Summary:**

Ref _	<u>Id_</u>	Element Name	Req	<b>Type</b>	Min/Max	Usage_
IEA01	I16	Number of Included Functional Groups  Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number  Description: A control number assigned by the interchange sender	M	N0	9/9	Must use